

UNBUNDLED TANDEM USAGE COSTS

MICHIGAN

<u>Line</u>	<u>Call Setup</u>	
1	Switching	\$ 0.000328
2	Expense	\$ 0.001013
	Total Setup	\$ 0.001341
	<u>Duration</u>	
3	Switching per minute	\$ 0.000139
4	Average min. per messag	3.437
5	Total duration cost	\$0.0004777
6	Total Cost per Message	\$ 0.001819
7	Cost per Average Minute	\$ 0.000529
	NonVolume Sensitive Cost	\$ 0.000004

Line 3 * Line 4

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MICHIGAN TANDEM TRUNK CALCULATION

<u>Switch</u>	<u>EF&I</u>	<u>Meld</u>	<u>ACF</u>	<u>TOTAL</u>
4E			0.3509	\$640.11
DMS	BELLCORE CONFIDENTIAL		0.3716	\$557.96
DSX			0.3519	\$0.90
			Annual Cost	\$1,198.98
			Monthly Cost	\$99.91
			Non Volume Sensitive Cost \$	0.71

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UNBUNDLED TANDEM SWITCHING

TRUNK FEATURES MICHIGAN

<u>Feature Name</u>	<u>FF&INVESTMENT</u>	
	<u>5E/4E</u>	<u>DMS</u>

Alt. Routing - Mult Cust. Locations

End Office Alternate Routing

Service Class Routing

Trunk Access Limitation

Call Gapping

Band Advance

BELLCORE CONFIDENTIAL

Total per DS1

Technology Mtd :

5E/4E	0.333	\$	602.76
DMS	0.667	\$	23.58

ACF :

5E/4E	0.3509	\$	211.51
DMS	0.3716	\$	8.76
TOTAL ANNUAL COST		\$	220.27

TOTAL MONTHLY COST PER DS1 :

\$ 18.38

Non Volume Sensitive Cost \$ **0.13**

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MICHIGAN						
Line	TRUNK PORT TRANSLATION MELD - TANDEM					
1					PW/FA	0.80436
		<u>INSTALL</u>	<u>RATIO</u>	<u>MELD</u>	<u>REMOVE</u>	<u>MELD</u>
2	4E/5E	\$ 288.96	0.333	\$ 98.22	\$ 313.18	\$ 104.29
3	DMS	\$ 290.01	0.687	\$ 193.44	\$ 314.30	\$ 209.64
4	EWSD	\$ 279.23	0	\$ -	\$ 302.61	\$ -
5				\$ 289.66		\$ 313.93
						25251
	<u>USC</u>			<u>TIME</u>	<u>RATE</u>	<u>COST</u>
6	Pre Service Setup			0.250	\$ 41.32	\$ 10.33
7	Verify & Release Order			0.167	\$ 41.32	\$ 6.90
8	Reverify & Close Order			0.083	\$ 41.32	\$ 3.43
9	Disconnect Order			0.083	\$ 41.32	\$ 3.43
10			Total			\$ 24.09
11	INSTALL	\$ 289.66				
12	REMOVE	\$ 252.51				
13	USC	\$ 24.09				
14	TOTAL	\$ 566.26				
Non Volume Sensitive Cost \$ 4.00						
	<u>SUBSEQUENT CHANGES</u>				<u>TIME</u>	<u>RATE</u>
	Centralized Translations Group(CTG) :					<u>COST</u>
15		Build Route Index Per Trunk Group			0.333	\$ 42.93
16		Disconnect Order			0.167	\$ 42.93
17		Total				\$ 21.47

Non Volume Sensitive Cost \$ 0.15

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AMERITECH MICHIGAN
Nonrecurring Cost Study
Ameritech DS-1 Service (New)

WORK GROUPS	A 1996 LABOR RATES	B ADMIN TIME (HOURS)	C ADMIN COST (A*B)	D DES. & CO TIME (HOURS)	E DES. & CO COST (A*D)	F CUST CON. TIME (HOURS)	G CUST CON. COST (A*F)	EXPLANATION OF WORK GROUPS
COF	\$41.97	0.75	\$31.48	0.00	\$0.00	0.00	\$0.00	Central Office Forces
CPC	\$38.96	0.39	\$15.04	0.00	\$0.00	0.00	\$0.00	Circuit Provisioning Center
FMAC	\$41.97	0.62	\$25.88	0.00	\$0.00	0.00	\$0.00	Fac. Maint. Admin. Ctr. (Prov.)
ICSC	\$38.81	0.65	\$25.28	0.00	\$0.00	0.00	\$0.00	Interexchange Carrier Service Ctr.
IFCPC	\$58.97	0.27	\$15.73	0.00	\$0.00	0.00	\$0.00	Interof. Fac. Current Plan. Ctr.
ISSC	\$51.43	0.31	\$15.94	0.00	\$0.00	0.00	\$0.00	Interfunc. Special Services Center
LAC	\$36.67	0.67	\$24.45	0.00	\$0.00	0.00	\$0.00	Loop Assignment Center
OSPE	\$51.24	0.79	\$40.35	0.00	\$0.00	0.00	\$0.00	Outside Plant Engineering
PICS	\$53.80	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Plug-In Control System
PINT	\$43.23	0.29	\$12.61	0.00	\$0.00	0.00	\$0.00	Plant Installation and Testing
SCC	\$41.97	0.76	\$32.06	0.92	\$0.00	0.00	\$0.00	Switching Control Center
SOEC	\$30.64	0.01	\$0.31	0.00	\$0.00	0.00	\$0.00	Service Order Error Correction
SUBTOTAL			\$239.13		\$0.00		\$0.00	
S.O. Computer Process Cost			3.97					
TOTAL			\$243.10		\$0.00		\$0.00	

Total Includes Disconnect — + 51.76 (next page)
Administrative Cost: \$294.86
NonVolume Sensitive Cost \$ = 2.07

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AMERITECH MICHIGAN
Nonrecurring Cost Study
Ameritech DS-1 Service (Disconnect)

WORK GROUPS	A 1999 LABOR RATES	B ADMIN TIME (HOURS)	C ADMIN COST (A * B)	D DES. & CO TIME (HOURS)	E DES. & CO COST (A * D)	F CUST CON. TIME (HOURS)	G CUST CON. COST (A * F)	EXPLANATION OF WORK GROUPS
COF	\$47.67	0.38	\$17.88	0.00	\$0.00	0.00	\$0.00	Central Office Forces
CPC	\$44.25	0.23	\$10.20	0.00	\$0.00	0.00	\$0.00	Circuit Provisioning Center
FMAC	\$47.67	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Fac. Maint. Admin. Ctr. (Prov.)
ICSC	\$44.08	0.41	\$18.28	0.00	\$0.00	0.00	\$0.00	Interexchange Carrier Service Ctr.
IFCPC	\$66.98	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Interof. Fac. Current Plan. Ctr.
ISSC	\$58.41	0.003	\$0.18	0.00	\$0.00	0.00	\$0.00	Interfunc. Special Services Center
LAC	\$41.65	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Loop Assignment Center
OSPE	\$58.20	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Outside Plant Engineering
PICS	\$61.10	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Plug-In Control System
PINT	\$49.10	0.25	\$12.28	0.00	\$0.00	0.00	\$0.00	Plant Installation and Testing
SCC	\$47.67	0.18	\$8.61	0.00	\$0.00	0.00	\$0.00	Switching Control Center
SOEC	\$34.79	0.01	\$0.35	0.00	\$0.00	0.00	\$0.00	Service Order Error Correction
SUBTOTAL			\$67.78		\$0.00		\$0.00	
Computer Cost			3.97					
Present Value (11.5% COM) 3 yrs			0.72140					
TOTAL			\$51.76		\$0.00		\$0.00	

Administrative Cost: \$51.76

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AMERITECH MICHIGAN

SERVICE COORDINATION COST FOR UNBUNDLED SERVICE

	ITEM		Per Bill Per CO Annual Cost
1	BILL RENDERING EXPENSE	L39	\$4.32
2	ACCOUNTS PROCESSING	L52	0.74
3	REMITTANCE PROCESSING	L43	1.19
4	CUSTOMER PAYMENT CENTERS	L65	1.11
5	CENTRALIZED INFO SERVICES	L56	0.06
6	COLLECTION CENTER EXPENSES	L74	1.48
7	TOTAL ANNUAL EXPENSE		\$8.90
8	COST PER MONTH	L7/12	\$0.74

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AMERITECH MICHIGAN
SERVICE COORDINATION COST - UNBUNDLED LOOP OR PORT

BILL RENDERING

- Data Processing -		
1	Total Data Processing Hardware Investment (1996)	\$13,899,858
2	Annual Cost Factor	0.3071
3	Investment Related Annual Cost (L1*L2)	\$4,268,646
4	Annual Leased Equipment	\$498,060
5	Annual Cost Land & Bldg for Data Processing	\$3,282,396
6	Annual Power	\$592,095
7	Annual Data Processing Hardware Cost (L3+L4+L5+L6)	\$8,641,197
- Accounts Processing		
8	% CAMPS Hardware Costs related to Total	19.22%
9	Annual Hardware Costs related to Accounts Processing (L8xL7)	\$1,660,838
10	Total Accounts Processed	3,768,889
11	Cost per Line for Data Processing (L9/L10)	\$0.44067
- Bill Formatting		
12	% CAMPS Hardware Costs related to Total	0.33%
13	Annual Data Processing Costs related to Bill Formatting (L8xL12)	\$28,516
- Microfiche		
14	Annual Cost for Microfiche	\$1,100,640
- Bill Verification (Manual)		
15	Total Labor for Data Processing (Bill Verification)	\$201,176
16	Annual Cost for Land & Bldg. (L15*21.27%)	\$42,790
17	Total Labor Expense for Bill Verification (L15+L16)	\$243,966
18	Total Cost of Formatting & Verification (L13+L14+L17)	\$1,373,122
19	Annual Pages Printed (1996 proj.)	277,349,770
20	Cost per Page for Formatting & Verification (L18/L19)	\$0.00495
- Printing (Costs from Outside Vendor)		
21	Monthly Computer Processing per account	\$0.002804
22	Image Printing Full	\$0.014300
23	First Page	\$0.004620
24	Send 2 Color Envelope	\$0.010550
25	Return 2 Color Envelope	\$0.007440
26	Inv Management	\$0.002208
27	Technical Support	\$0.003897
28	Productivity Bonus	\$0.008580
29	Total Monthly Processing Costs for Printing (L21 thru L28)	\$0.054399
30	Annual Printing Costs per Account (L29*12)	\$0.652788

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BILL RENDERING (cont'd)

- Mail		
31	Inserting	\$0.003061
32	Postage	\$0.250950
33	Total Monthly Postage (L32+L33)	\$0.254011
34	Total Annual Postage and Handling per Account L33*12	\$3.048132
- Cost per Account - Annual		
35	Cost per Account for Printing (L30)	\$0.65279
36	Cost per Account for Postage (L34)	\$3.04813
37	Cost per Account for Accounts Data Processing (L11)	\$0.44067
38	Cost per Acct. for Bill Verif.related to Network Access(L20x3x12)	\$0.17823
39	Total Cust. Bill Rend.Costs per Account (L35+L36+L37+L38)	\$4.32

REMITTANCE PROCESSING

40	Annual Labor for Remittance Processing - JFC 1250	4,268,749
41	Annual Cost for Floor Space	222,840
42	Total Costs for Remittance Processing (L40+L41)	4,491,589
43	Annual Cost per Account L42/L10	\$1.19

ACCOUNTS PROCESSING

44	Annual Accounts Processing Wage Expense 1993 JFC 1260	\$2,221,696
45	Wage Inflation Factor 93-96	1.132
46	Growth Factor to 1996	1.072
47	Wage Expense 1996 L51*L52*L53	2,696,037
48	Total Square feet	3,570
49	Annual Cost per Square Foot	\$26.25
50	Annual Cost for Floor Space L46*L49*L50	\$100,460
51	Total Annual Costs for Accounts Processing L47 + L50	\$2,796,497
52	Annual Cost per Account L51/L10	\$0.74

CENTRALIZED INFORMATION SERVICES

53	Total Labor for Cent. Info. Services	\$191,067
54	Annual Cost for Floor Space	\$24,750
55	Total Annual Cost for Cent. Services 1996 L53 + L54	\$215,817
56	Annual Cost per Account L55/L10	\$0.06

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CUSTOMER PAYMENT CENTERS

57	Annual Cust Payment Centers Wage Expense 1993	JFC 2E90	\$2,938,873
58	Wage Inflation Factor 1993 to 1996		1.132
59	Growth Factor to 1996		1.072
60	Wage Expense 1996	L57*L58*L59	3,566,334
61	Total Square feet		28,177
62	Annual Cost per Square Foot		\$21.00
63	Annual Cost for Floor Space	L61*L62*L63	\$634,321
64	Total Annual Costs for Accounts Processing	L60 + L63	\$4,200,655
65	Annual Cost per Account	L64/L10	\$1.11

TREATMENT COLLECTION CENTERS

66	Live Accounts Collection Center (LACC) Res & Bus	JFC 2E93	\$5,266,547
67	Final Accounts (FACC)		\$3,176,212
68	Annual Cost for Floor Space		\$3,697,888
69	Total Annual Expense for Collections	L66+L67+L68	\$12,140,646
70	% of Collection Revenue related to Network Access		36.81%
71	Annual Expense for Coll Ctrs related to Network Access	L69*L70	\$4,468,972
72	Annual Expense per Account - Treatment- Coll. Centers	L82/ L71/L10	\$1.19
73	Postage related to Treatment		\$0.29
74	Annual Cost per Account	L72 + L73	\$1.48

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WEIGHTED UNBUNDLED SERVICES SERVICE ORDER COST

	% a	MICH COST b	<u>MICH</u> wtd cost a x b
LOOP	37%	11.35	4.1995
PORT	5%	12.34	0.617
SPNP DIRECT	8%	64.08	5.0448
SPNP REMOTE	50%	56.67	28.335
ADD'L PATH	2%	12.36	0.2472

\$38.44

Non Volume Sensitive NRC ... 38

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SPNP - REMOTE NONRECURRING COSTS
MICHIGAN

A Work Group Per # Ported	B Activity	C Installation/ Removal Time Estimate (Hrs)	D 1997 Labor Rate Per Hour	E=C*D Total Installation Removal Exp	
1) Business Unit (per order) (A/C = M236X Wisc only)	a Log Order	0.083	\$32.12	\$2.68	
	b Pull CSR, Verify Request	0.167	\$32.12	\$5.35	
	c Call Business Office to issue C order	0.042	\$32.12	\$1.34	
	d Input into Ordermate	0.167	\$32.12	\$5.35	
	e Machine cost			\$4.33	
location life = 1 year	f Disconnect Order PV=11.5%COM	0.083	\$33.47	\$2.50	
	g Machine cost PV=11.5%COM			\$3.88	
	h Total				\$25.43
2) Business Office (per order) (A/C = M236X)	a Type Order	0.250	\$40.36	\$10.09	
	b Contact Time	0.167	\$40.36	\$6.73	
	c Issue Order	0.250	\$40.36	\$10.09	
	e Machine cost			\$4.33	
	f Total				\$31.24
3) Unbundling Center (per # ported) (A/C = P475X Wisc only)	a Pre-service Set-up	0.271	\$41.32	\$11.19	
	b Verify and Release Order				
	c Reverify and Close Order				
	d Disconnect Order PV=11.5%COM	0.083	\$43.05	\$3.22	
	e Total				\$14.41
4) Recent Change Memory Admin. Ctr (RCMAC) (A/C = P430X)	a Input Translations per # ported	0.083	\$43.65	\$3.64	
	b Rearrangement per line	0.025	\$43.65	\$1.09	
	c Total				\$4.73
5) Network Administration Center (NAC) (A/C = M270X)	Number Assignment	0.015	\$40.75	\$0.61	
EA) Line Connection Non Volume Sensitive Cost					.44
6) Business Unit (per order) (A/C = M236X Wisc only)	Log and Input Order	0.250	\$32.12	\$8.03	
	Machine cost			\$4.33	\$12.36
7) Unbundling Center (per additional path) (A/C = P475X Wisc only)	a Pre-service set-up, Release and Closure	0.083	\$41.32	\$3.44	
	b Disconnect Order PV=11.5%COM	0.083	\$43.05	\$3.22	
	c Total				\$6.66
8) Recent Change Memory Admin. Ctr (RCMAC) (per additional path)	Input Translations	0.083	\$43.65	\$3.64	
EA) Line Connection Non Volume Sensitive Cost					.23
9) TOTAL NRC PER NUMBER PORTED					
a) - Service Ordering - per order		\$56.67			= 25.43 + 31.24
b) - Line Connection - per # ported		\$19.75			= 14.41 + 4.73
10) TOTAL NRC PER ADDITIONAL PATH					
a) - Service Ordering - per order		\$12.36			= 12.36
b) - Line Connection - per additional path (subsequent)		\$10.30			= 6.66 + 3.64

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UNIT COST SUMMARY

AMERITECH - MICHIGAN

SERVICE PROVIDER NUMBER PORTABILITY (SPNP) SERVICE

DIRECT

*Non Volume
Sens...*

1	Monthly Cost Per Voice Grade Channel Termination - Central Office	\$4.97	
2	Monthly Cost Per Voice Grade Channel Termination - D4	\$13.19	
3	Monthly Cost Per Voice Grade Channel Termination	\$18.16	$L1 + L2 = .40$
4	Monthly Cost Per DS1 Channel Termination	\$119.28	$L1 * 24 = 2.24$
5	Monthly Cost Per Number Ported	\$0.0000581	
6	Monthly Cost Per Telephone Number and Intercept	\$0.03	
7	Total Monthly Cost Per Ported Number	\$0.0300581	$L5 + L6 = .000666$

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AMERITECH - MICHIGAN
DIRECT INWARD DIALING
MONTHLY COST PER TRUNK
TERMINATION

INVESTMENT PER
TRUNK TERM

5ESS
DMS-100
EWSD

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ANNUAL COST
FACTORS - 377C

5ESS 0.3509

DMS-100 0.3716

EWSD 0.4063

COST PER
TRUNK TERM

5ESS

BELLCORE

DMS-100

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EWSD

WEIGHTINGS

5ESS 33.12%

DMS-100 57.22%

EWSD 9.66%

TOTAL 100.00%

ANNUAL
WEIGHTED COST
PER TRUNK TERM

\$59.60

MONTHLY
WEIGHTED COST
PER TRUNK TERM

\$4.97

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**AMERITECH - MICHIGAN
DIRECT INWARD DIALING
MONTHLY COST D4 CHANNEL BANK PER DSO**

**INVESTMENT D4 CHANNEL BANK
PER DSO**

\$321.76

**ANNUAL COST FACTOR
357C**

0.3137

**ANNUAL COST
D4 CHANNEL BANK
PER DSO**

\$100.94

**MONTHLY COST
D4 CHANNEL BANK
PER DSO**

\$8.41

**AMERITECH - MICHIGAN
DIRECT INWARD DIALING
MONTHLY COST D4 PLUG-IN UNIT PER DSO**

**INVESTMENT D4 PLUG-IN UNIT
PER DSO**

\$182.77

**ANNUAL COST FACTOR
357C**

0.3137

**ANNUAL COST
D4 PLUG-IN UNIT
PER DSO**

\$57.33

**MONTHLY COST
D4 PLUG-IN UNIT
PER DSO**

\$4.78

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AMERITECH-MICHIGAN
DIRECT INWARD DIALING
DIRECTORY NUMBER
MONTHLY COST

INVESTMENT & COST PER DN
5ESS

INVESTMENT & COST PER DN
EWSD

INVESTMENT PER DN
DMS-100

ANNUAL COST FACTOR
377C - DMS-100

MONTHLY COST PER DN - DMS-100

BELLCORE

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.37160

\$0.0001016

WEIGHTINGS

5ESS	33.12%
EWSD	9.66%
DMS-100	57.22%

TOTAL

MONTHLY
WEIGHTED COST PER DN

\$0.0000581

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AMERITECH MICHIGAN

UNBUNDLED LOOP
COST OF A TELEPHONE NUMBER

LINE	DESCRIPTION	
1	NETWORK ADMINISTRATION HOURS - INSTALL	1
2	CENTRAL OFFICE ACTIVITY HOURS - INSTALL	44
3	CIRCUIT FACILITIES HOURS - INSTALL	80
4	COSMOS DATABASE HOURS - INSTALL	3
5	NETWORK ADMINISTRATION HOURS - REMOVE	0.25
6	CENTRAL OFFICE ACTIVITY HOURS - REMOVE	10
7	CIRCUIT FACILITIES HOURS - REMOVE	20
8	COSMOS DATABASE HOURS - REMOVE	0.5
9	USABLE NUMBERS IN A PREFIX (FWD LOOKING)	10,000
10	C.O. LINE & NO. ADMIN. (96) M270X	39.19
11	C.O. TECHNICIAN (96) P430X	41.43
12	CIRCUIT FACILITIES (96) M270X	39.19
13	COSMOS DATABASE (96) P430X	41.43
14	PROGRAM STORE WORD INSTALLED INVEST.	0.0056
15	COST OF MONEY	0.136
16	ANNUAL COST FACTOR 377C (MEGA DMS)	0.4552
17	DISCOUNT RATE (MEGA DMS)	0.824
18	LABOR RATE INFLATION FACTOR	various

NONRECURRING COSTS

19	NETWORK ADMINISTRATION COST - INSTALL	L1*L10	39.19
20	CENTRAL OFFICE ACTIVITY COSTS - INSTALL	L2*L11	1822.92
21	CIRCUIT FACILITIES COST - INSTALL	L3*L12	3135.20
22	COSMOS DATABASE COST - INSTALL	L4*L13	124.29
23	TOTAL LABOR COST - INSTALL	L19..L22	5121.60
24	LABOR INFLATION FACTOR FOR 7 YEARS		1.357
25	NETWORK ADMINISTRATION COST - REMOVE	L5*L10*L24	13.3
26	CENTRAL OFFICE ACTIVITY COST - REMOVE	L6*L11*L24	562.21
27	CIRCUIT FACILITIES COST - REMOVE	L7*L12*L24	1063.62
28	COSMOS DATABASE COST - REMOVE	L8*L13*L24	28.11
29	TOTAL LABOR COST - REMOVE (FUTURE AMT)	L25..L28	1667.24
30	PV of FUTURE AMT FACTOR (1,11.5%,7yr)		0.46674
31	PV OF REMOVAL COSTS	L30*L29	778.17
32	TOTAL LABOR COSTS	L23+L31	5899.77
33	NONRECURRING COST PER NUMBER	L32/L9	0.59

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AMERITECH MICHIGAN

UNBUNDLED LOOP
COST OF A TELEPHONE NUMBER

LINE	DESCRIPTION		
34	NONRECURRING COST PER NUMBER (LABOR)	L33	0.59
35	USEFUL LIFE IN YEARS		7
36	ANNUITY FACTOR (PV 1, INT 11.5, TERM 7 YRS)		0.1774
37	ANNUAL RECURRING COST PER NUMBER (LABOR)	$L34 * L36$	0.10467
38	ANN COST FOR PROG STORE WORD	L14	0.0056
39	ANN COST FOR PGM STORE WORD w/discount	$L38 * (1 - L17)$	0.00099
40	TOTAL ANNUAL COST PER NUMBER	$L37 + L39$	0.10566
41	TOTAL MONTHLY COST PER NUMBER	$L40 / 12$	0.01

PROPRIETARY

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AMERITECH MICHIGAN

UNBUNDLED PORT
INTERCEPT COST SUMMARY

1. OPERATOR ANNUAL WAGES AND EXPENSES		\$257,423
2. INTERCEPT TRUNK MILEAGE ANNUAL COST		\$16,182
3. INTERCEPT CXR TERMINATIONS ANNUAL COST		\$663,735
4. INTERCEPT COE SW ANNUAL COST		\$252,812
5. TOTAL INTERCEPT EXPENSE	L1+L2+L3+L4	\$1,190,152
6. TOTAL ACCESS LINES		4,890,240
7. ANN INTERCEPT COST PER ACCESS LINE	L5/L6	\$0.24
8. MO. INTERCEPT COST PER ACCESS LINE	L7/L2	\$0.02

PROPRIETARY

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AMERITECH MICHIGAN

UNBUNDLED PORT
INTERCEPT OPERATOR SERVICES
WAGES & EXPENSES

A. 2140 INTERCEPT - OPERATORS		\$101,000
B. 2141 INTERCEPT - SUPERVISION AND ASSISTANCE		\$28,000
C. 2142 OPERATOR SERVICES CLERICAL - INTERCEPT		\$3,000
D. 2146 INTERCEPT OPERATOR REFERENCE SOURCE - MTCE.		\$109,000
E. 2147 INTERCEPT OPERATOR REFERENCE SOURCE - MAINTENANCE SUPERVISION AND ASSISTANCE		\$56,000
F. TOTAL INTERCEPT WAGES AND EXPENSES (A+...+E)		\$297,000
G. PERCENT ASSIGNED TO LOCAL		0.757354
H. TOTAL INTERCEPT WAGES & EXPENSES ASSIGNED TO LOCAL (1993)	F*G	\$224,934
F. TOTAL 1996 INTERCEPT EXPENSES-TPI	(H*1.144)	\$257,423

PROPRIETARY

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AMERITECH MICHIGAN

UNBUNDLED PORT INTERCEPT TRUNK MILEAGE COST

1. AUTOMATIC INTERCEPT TRUNK MILES	ENGR STUDY	88,309
2. INVESTMENT PER MILE DS0 845C	FIC STUDY, L40	\$0.16
3. INVESTMENT PER MILE DS0 4C	FIC STUDY, L41	0.09
4. INVESTMENT PER MILE DS0 85C	FIC STUDY, L42	0.18
5. INVESTMENT PER MILE DS0 357C	FIC STUDY, L45	0.52
6. ANNUAL COST FACTOR (ACF) 845C		0.1898
7. ANNUAL COST FACTOR (ACF) 4C		0.1447
8. ANNUAL COST FACTOR (ACF) 85C		0.1969
9. ANNUAL COST FACTOR (ACF) 357C		0.3137
10. ANNUAL COST OF INTERCEPT MILEAGE	SUM(Mi*Inv*ACF)	\$21,367
11. PERCENT ASSIGNED TO LOCAL	SIS-PC	0.757354
12. ANNUAL COST OF INTERCEPT MILEAGE	L10*L11	\$16,182

PROPRIETARY

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AMERITECH MICHIGAN

UNBUNDLED PORT
INTERCEPT CXR TERMINATIONS

1. AUTOMATIC INTERCEPT TRUNKS	ENGR STUDY	2,770
2. NO. OF CXR TERMINATIONS	2*L1	5,540
3. INVESTMENT PER TERMINATION	FIC STUDY, L14	\$504.28
4. ANNUAL COST FACTOR 357C		0.3137
5. TOTAL ANNUAL COST	L2*L3*L4	\$876,387
6. PERCENT ASSIGNED TO LOCAL	SIS-PC	0.757354
7. INTERCEPT COST ASSIGNED LOCAL	L5*L6	\$663,735

PROPRIETARY

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AMERITECH MICHIGAN

UNBUNDLED PORT
INTERCEPT COE SWITCHING EQUIPMENT

A. 2200 CAT 1Q0 (FRC 117C) (04/95 SIS-PC, SEC A-1, P.1 OF 1, LINE 8I)		\$807,396
B. 117C CC/BC FACTOR (1994)		1.009
C. 117C CURRENT INVESTMENT (1994)	A*B	\$814,663
D. 117C TPI FACTOR 96/94		0.994
E. 117C INVESTMENT (1996)	D*C	\$809,775
F. 117C ANNUAL COST FACTOR		0.3122
G. 117C INTERCEPT ANNUAL COST	F*E	\$252,812

PROPRIETARY

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